

Claims

What is claimed is:

1. A method for detection of nucleic acids, comprising the steps of:
 - a) linearizing a vector containing vector nucleic acid and a cloned nucleic acid;
 - b) transcribing said fragment to produce a transcribed nucleic acid comprising a segment derived from said vector nucleic acid and a segment derived from said cloned nucleic acid, said segment derived from said vector nucleic acid comprising a capture sequence, and said segment derived from said cloned nucleic acid comprising a probe;
 - c) providing dendrimer molecules, said dendrimer molecules comprising a nucleic acid sequence complementary to said capture sequence, and further comprising a signal molecule;
 - d) providing a membrane comprising target nucleic acid; and,
 - e) conducting a blot assay using said transcribed nucleic acids, said dendrimer molecules, and said membrane.
2. A method as claimed in claim 1, further comprising the step of fixing genomic DNA to said membrane.
3. A method as claimed in claim 1, further comprising the step of preparing said dendrimer molecule by attaching to a dendrimer reagent said nucleic acid sequence complementary to said capture sequence.
4. A method for detection of nucleic acids, comprising the steps of:

- a) linearizing a vector containing vector nucleic acid and a cloned nucleic acid;
- b) transcribing said fragment to produce a transcribed nucleic acid comprising a segment derived from said vector nucleic acid and a segment derived from said cloned nucleic acid, said segment derived from said vector nucleic acid comprising a capture sequence, and said segment derived from said cloned nucleic acid comprising a probe;
- c) providing dendrimer molecules, said dendrimer molecules comprising a nucleic acid sequence complementary to said capture sequence, and further comprising a signal molecule;
- d) hybridizing said probe to a target nucleic acid; and
- e) hybridizing said dendrimer to said capture sequence.

5. A method as claimed in claim 4, further comprising the step of preparing said dendrimer molecule by attaching to a dendrimer reagent said nucleic acid sequence complementary to said capture sequence.